

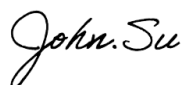
ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2022-04-18 14:48:44  
 Date of Next Testing: 2026-04-17 14:48:44  
 Product Name: **Isopropyl Alcohol**  
 CAS Number: 67-63-0  
 Specifications & Purity: Analytical Reagent, ≥99.7%  
 Lot #: C2228155  
 SKU #: **I112011**  
 Analysis: **082207**

Parameter	Limit Values	Result
Purity(GC)	99.7-100 (%)	99.90%
Carbonyl Compounds(as Propional dehyde)	0-0.005 (%)	0.00%
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Methanol(CH <sub>3</sub> OH)	0-0.1 (%)	0.00%
Refractive index n <sub>20</sub> /D	1.376-1.379	1.38
Water by Karl Fischer	0-0.1 (%)	0.02%
Evaporation Residue	0-0.001 (%)	0.00%
Acidity(as H <sup>+</sup> )	0-0.0003 (mmol/g)	0.00 mmol/g
Density	0.7844-0.786 (g/ml)	0.79 g/ml
Appearance (I112011)	Colorless liquid	Colorless liquid
Miscibility with water	pass	Pass
Potassium permanganate reducing substances	Pass	Pass
Readily carbonizable substance	pass	Pass



John Su  
QA & QC Manager